Jerry Sun

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Education

Cornell University, Ithaca, New York
B.S. Computer Science, GPA: 3.75, Deans List FA 19' 20' Aug 2019 - May 2023

- **Coursework**: Algorithms, Machine Learning, Computer Vision, Probability and Statistics, Computer Systems, Functional Programming, Learning Analytics, Discrete Structures, OOP & Data Structures, Linear Algebra, Multivariable Calculus

Skills

Languages

- Python, Java, R, SQL, Ocaml, React, TypeScript, C

Technologies

- Git, AWS, Tensorflow, Keras, PyTorch, Scikit-Learn

Experience

Amazon | *SDE Intern (AWS)* Jun 2021 - Present

- Extended an internal tool to automatically collect and store EC2 Nitro hardware system metadata inside a MySQL database, reducing query times from hours to seconds
- Developed an existing internal tool's testing infrastructure by adding unit and integration tests, severely reducing the frequency at which the service crashes

Teaching Assistant | *CS 4780: Intro to Machine Learning* Dec 2020 - Present

- Member of the homework creation team that creates and modifies bi-weekly homework sets
- Grade homework and exams, proctor exams, and hold office hours for the class size of 300

Research | *Undergraduate Researcher* Dec 2020 - Present

- Researching Transformer Variational Autoencoders for Molecular Design under Prof. Fengqi You

Cornell Data Science | *Education Subteam Lead & Onboarding Chair* Jan 2020 - Present

- Manage the subteam's creation of data science tutorials and all other technical projects
- Onboard full-team recruits through technical lectures and culture building events
- Lecture, grade, and hold office hours for the student-led Intro to Data Science class

Projects and Accolades

Election Prediction Kaggle Competition Dec 2020

- Created SVM, KNN, and Neural Network models to predict the 2016 election results by county. Team placed 4th and achieved an 86% accuracy rate.

2nd Place in the Cornell Mathematical Contest in Modeling Dec 2019

- Developed models to assign repair priority scores to blocks of sidewalks, identify optimal repair strategies, and predict future budget costs for the Ithaca Sidewalk Improvement Program

1st Place in the Cornell Hospitality Hackathon Sep 2019

- Pitched a data-driven model to cluster guests based on preferences (e.g., sleeping habits) and used location data to optimize efficiency by housekeepers and reduce workplace musculoskeletal injuries